

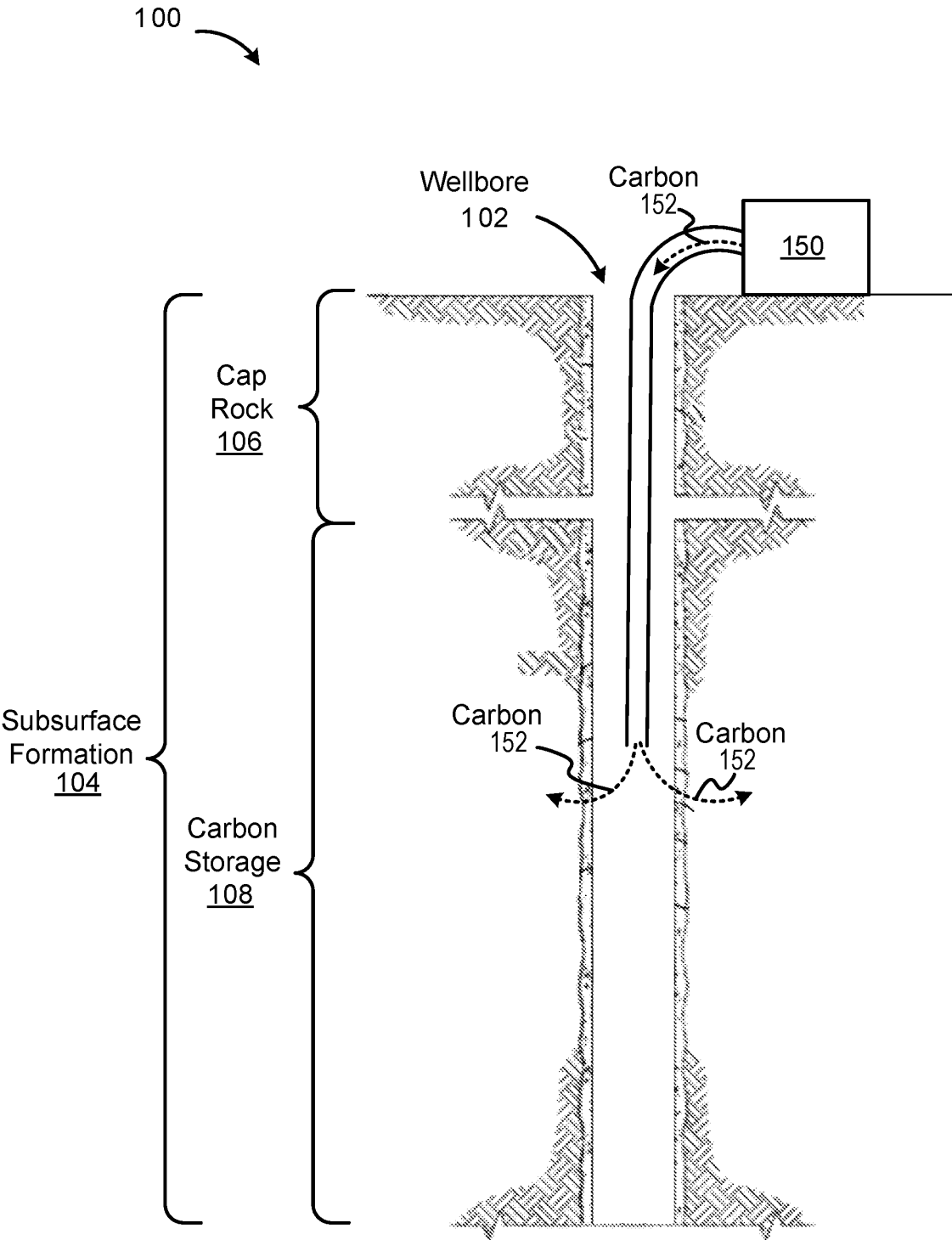


FIG. 1

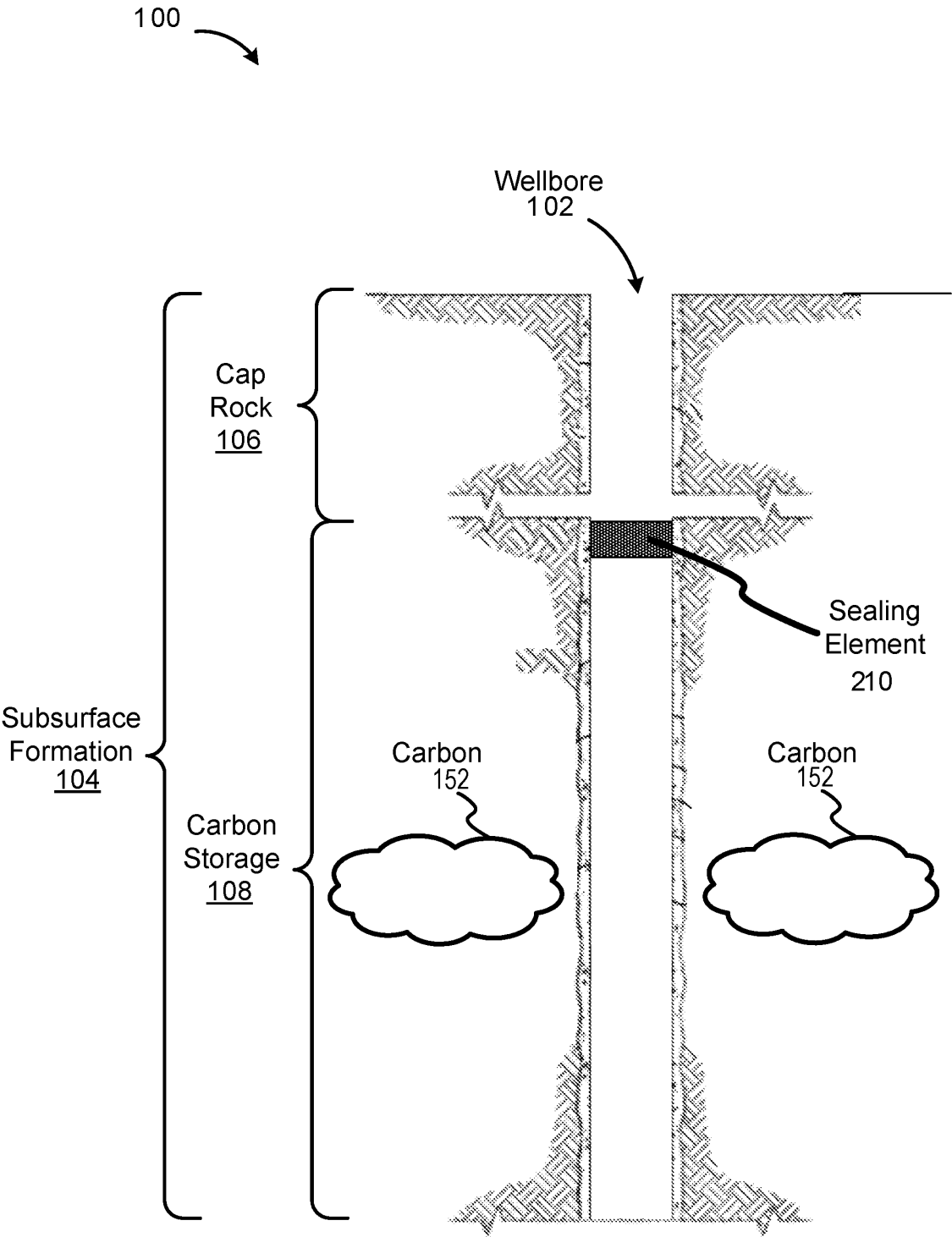


FIG. 2

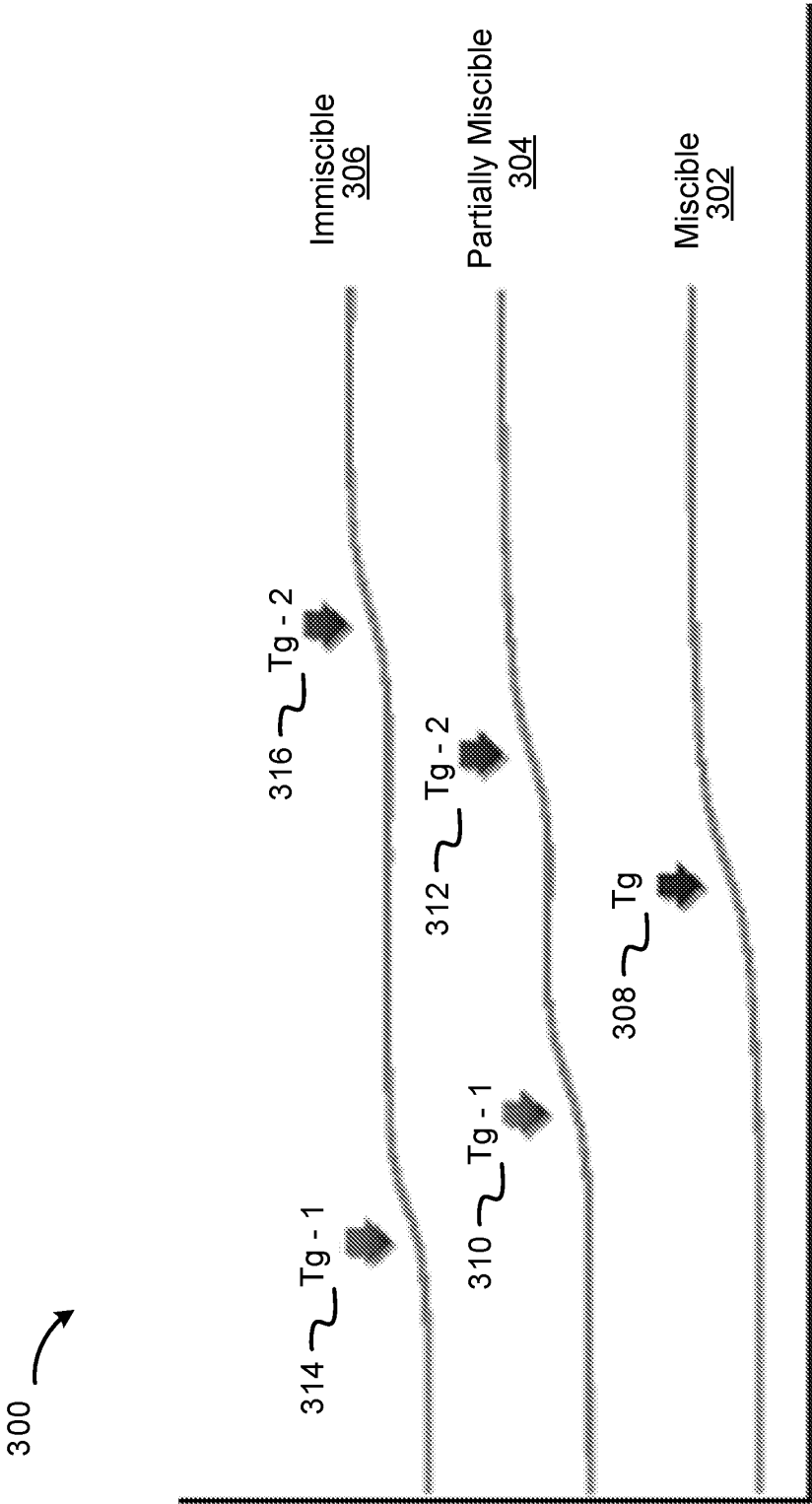


FIG. 3

400 

Properties of EPDM blends with increasing Silicone Loading							
Properties <u>402</u>	100% EPDM (0phr) <u>404</u>	95% EPDM-5% Silicone (5phr) <u>406</u>	90% EPDM-10% Silicone (10phr) <u>408</u>	80% EPDM-20% Silicone (20phr) <u>410</u>	70% EPDM-30% Silicone (30phr) <u>412</u>	0% EPDM-100% Silicone (100phr) <u>414</u>	
Tensile at break (Tb) <u>422</u>	1660	1592	1510	1330	1252	826	
Elongation at break (Eb) <u>424</u>	255	272	266	256	234	42	
Tensile stress at 25% elongation (25M) <u>426</u>	178	203	151	170	197	682	
Tensile stress at 50% elongation (50M) <u>428</u>	262	260	218	240	286	---	
Tensile stress at 100% elongation (100M) <u>430</u>	506	416	394	419	499	---	

FIG. 4

500 

Properties <u>502</u>	EPDM <u>504</u>	Silicone <u>506</u>	EPDM-Silicone Blend <u>508</u>
Low Temperature Sealing Properties Below -50°C <u>510</u>	Good	Excellent/ Very High	Very Good
High Temperature Performance <u>512</u>	Very Good	Excellent/ Very High	Excellent/ Very High
High Temperature Steam Exposure Resistance <u>514</u>	Excellent/ Very High	Very Good	Excellent/ Very High
High Pressure Sealing Performance <u>516</u>	Excellent/ Very High	Fair	Very Good
Oil Resistance <u>518</u>	Fair	Poor	Fair
Cost to Performance Value <u>520</u>	Excellent/ Very High	Very Good	Excellent/ Very High

FIG. 5

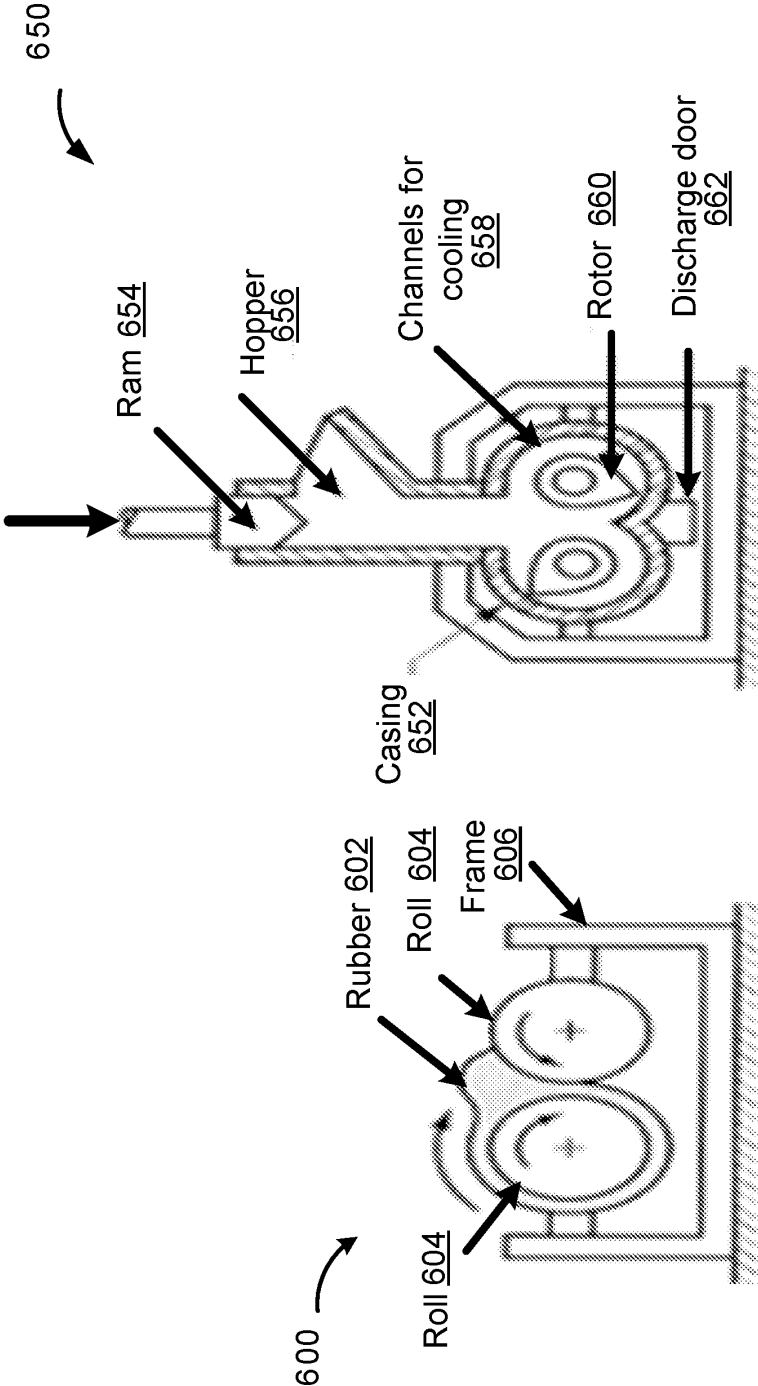


FIG. 6B

FIG. 6A

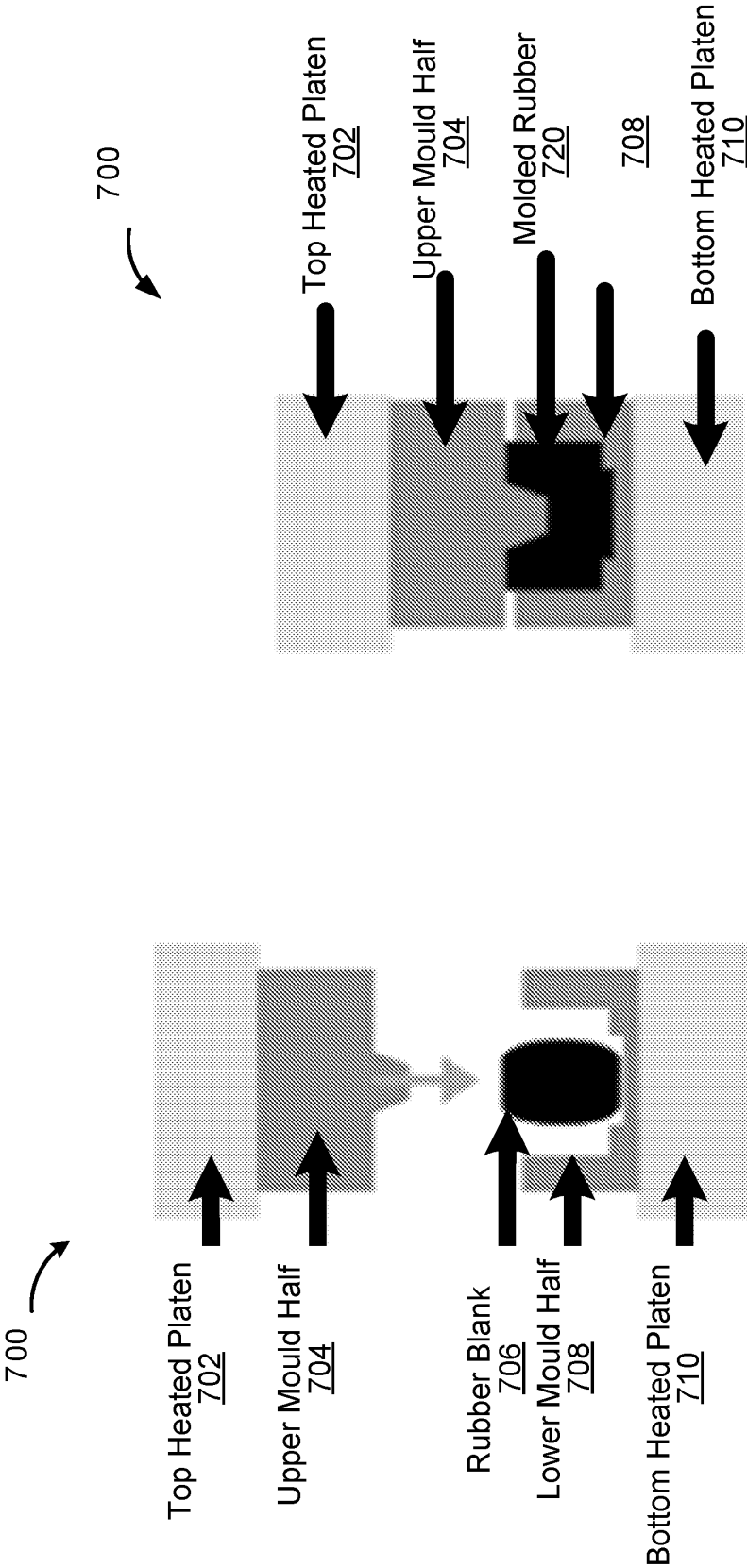


FIG. 7B

FIG. 7A

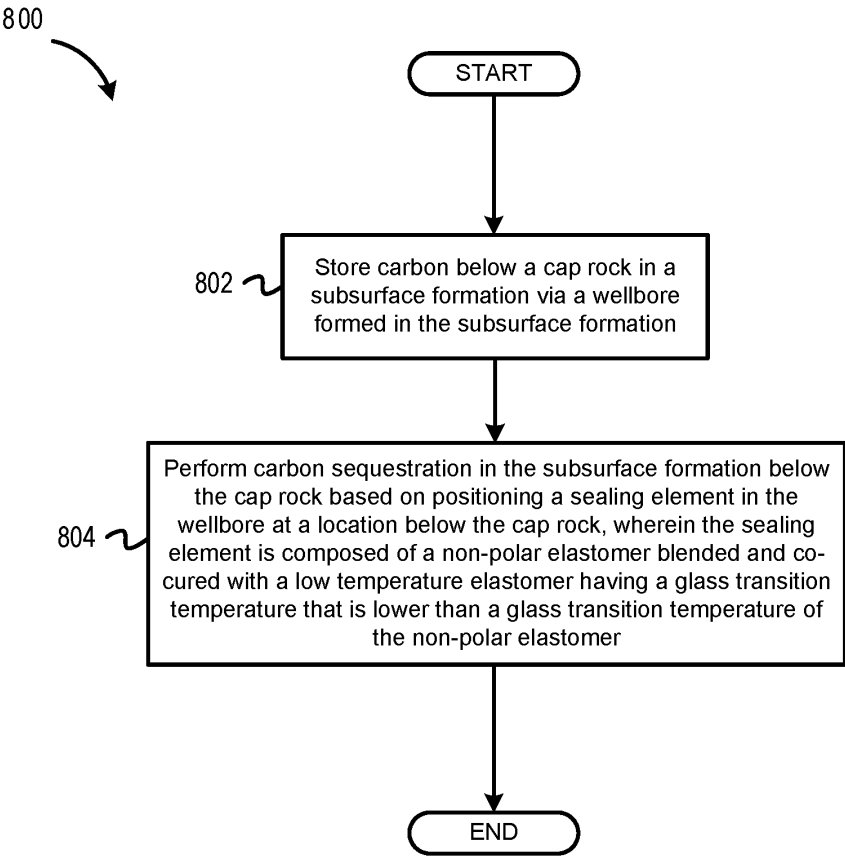


FIG. 8